

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2004/000540

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7: C12N 15/70, C12N 15/61**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

**IPC7: C12N**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

**SE,DK,FI,NO classes as above**

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**WPI, EPO-INTERNAL, PAJ**

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Protein Science, Volume 4, 1995, Arnold Andersson et al, "Purification and preliminary X-ray crystallographic studies of recombinant L-ribulose-5-phosphate 4-epimerase from Escherichia coli" pages 1648-1650, page 1648, column 2, paragraph 2-3, abstract	8
Y	--	9-12
Y	WO 02090558 A1 (FIT BIOTECH OYJ PLC), 14 November 2002 (14.11.2002), (cited in the application, abstract)	9-12

 Further documents are listed in the continuation of Box C. See patent family annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

18 January 2005

Date of mailing of the international search report

20-01-2005

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<b>Carcinogenesis</b> , Volume 14, No. 2, 1993, Rafael R. Ariza et al, "A method for selection of forward mutations in supF gene carried by shuttle-vector plasmids", pages 303-305, page 303, column 2, paragraph 3, table 1  --	13-15
A	<b>PNAS</b> , Volume 97, No. 12, June 2000, Kirill A. Datsenko et al, "One-step inactivation of chromosomal genes in Escherichia coli K-12 using PCR products", pages 6640-6645, abstract  --	1-24
A	<b>Journal of Bacteriology</b> , Volume 172, No. 11, November 1990, Marta Herrero et, "Transposon Vectors Containing Non-Antibiotic Resistance Selection Markers for Cloning and Stable Chromosomal Insertion of Foreign Genes in Gram-Negative Bacteria", pages 6557-6567, abstract  --	1-24
A	<b>Journal of Bacteriology</b> , Volume 84, 1962, E. Englesberg et al, "L-Arabinose-sensitive, L-ribulose 5-phosphate 4-epimerase-deficient mutants of Escherichia coli", pages 137-146, abstract  -----	13-21

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

31/12/2004

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WO	02090558	A1	14/11/2002	AP	200302914	D	00/00/0000
				BR	0209416	A	30/03/2004
				CA	2446260	A	14/11/2002
				CZ	20033201	A	12/05/2004
				EE	200300483	A	15/04/2004
				EP	1390516	A	25/02/2004
				FI	20010922	A	04/11/2002
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